

STIC Search Report

901

STIC Database Tracking Number: 144,934

TO: Anthony Green Location: REM 9C15

Art Unit : 1755 February 23, 2005

Case Serial Number: 10/721402

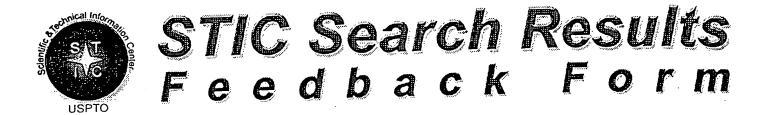
From: Usha Shrestha Location: EIC 1700 REMSEN 4B28

Phone: 571/272-3519

usha.shrestha@uspto.gov

Search Notes	
·	





200					į
# 1	A.Z.	Ber A		STE	
# -		膠組	W I	\$ 1 B	į

Questions about the scope or the results of the search? Contact the EIC searcher or contact:

Kathleen Fuller, EIC 1700 Team Leader 571/272-2505 REMSEN 4B28

Voluntary Results Feedback Form	
 I am an examiner in Workgroup: Example: 1713 Relevant prior art found, search results used as follows: 	
102 rejection	
103 rejection	
Cited as being of interest.	
Helped examiner better understand the invention.	
Helped examiner better understand the state of the art in their technology.	
Types of relevant prior art found:	
☐ Foreign Patent(s)	
 Non-Patent Literature (journal articles, conference proceedings, new product announcements etc.) 	
> Relevant prior art not found:	
Results verified the lack of relevant prior art (helped determine patentability).	
Results were not useful in determining patentability or understanding the invention.	
Comments:	

Mellerson, Kendra

From: Sent: To:

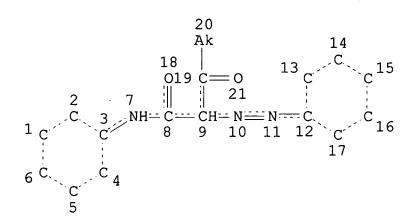
Green, Anthony (AU1755) Thursday, February 10, 2005 6:41 PM STIC-EIC1700 Structure search 10/721,402

Subject:

Please do a structure search for claim 1 of this application. Thanks

Anthony Green Primary Patent Examiner AU 1755 REMSEN 9C-15 571-272-1367

```
=> fil req
FILE 'REGISTRY' ENTERED AT 12:37:56 ON 23 FEB 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 American Chemical Society (ACS)
=> d his
     FILE 'LREGISTRY' ENTERED AT 09:37:41 ON 23 FEB 2005
L1
               STR
FILE 'REGISTRY' ENTERED AT 09:43:22 ON 23 FEB 2005
L2
            50 S L1
L3
               STR L1
L4
            50 S L3
L5
         4396 S L4 FUL
     FILE 'LREGISTRY' ENTERED AT 10:01:10 ON 23 FEB 2005
L6
               STR L3
L7
               STR L3
L8
               STR L6
L9
               STR L7
     FILE 'REGISTRY' ENTERED AT 11:16:16 ON 23 FEB 2005
L10
             0 S L8 SAM SUB=L5
L11
             0 S L9 SAM SUB=L5
L12
            16 S (L8 OR L9) FUL SUB=L5
     FILE 'LREGISTRY' ENTERED AT 11:53:01 ON 23 FEB 2005
L13
               STR L3
     FILE 'REGISTRY' ENTERED AT 12:20:59 ON 23 FEB 2005
L14
           50 S L13 SAM SUB=L5
L15
         1548 S L13 FUL SUB=L5
               SAV L14 GRE721/A
               SAV L15 GRE721A/A
               SAV TEMP L5 GRE721B/A
    FILE 'HCAPLUS' ENTERED AT 12:24:05 ON 23 FEB 2005
L16
          5 S L12
L17
          3618 S L15
L18
             4 S L16 AND L17
    FILE 'REGISTRY' ENTERED AT 12:37:56 ON 23 FEB 2005
=> d que 118
L3
               STR
```



NODE ATTRIBUTES:
CONNECT IS E2 RC AT 10
CONNECT IS E2 RC AT 11
DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

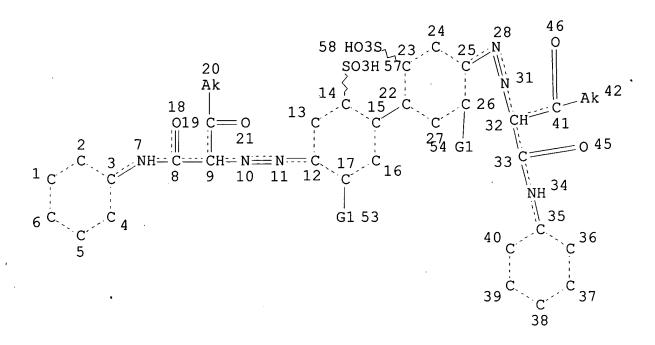
GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 21

STEREO ATTRIBUTES: NONE

L5 4396 SEA FILE=REGISTRY SSS FUL L3

L8 STR



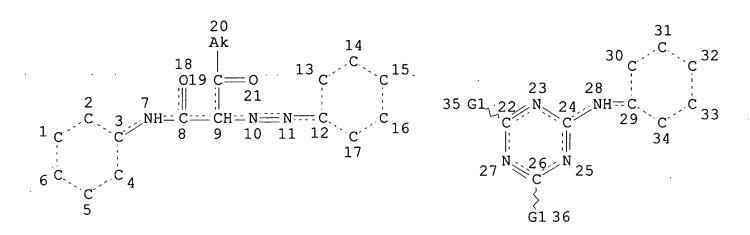
Ak~^O @55 56

VAR G1=AK/55 NODE ATTRIBUTES: CONNECT IS E2 RC AT 10 CONNECT IS E2 RC AT 11 CONNECT IS E2 28 RC AT CONNECT IS E2 RC AT 31 DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 48

STEREO ATTRIBUTES: NONE L9 STR



VAR G1=OH/37
VAR G2=AK/CB
NODE ATTRIBUTES:
CONNECT IS E2 RC AT 10
CONNECT IS E2 RC AT 11
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 42

STEREO ATTRIBUTES: NONE

L12 16 SEA FILE=REGISTRY SUB=L5 SSS FUL (L8 OR L9)

L13 STR

VAR G1=PH/24
VAR G2=CL/NO2/ME/MEO
NODE ATTRIBUTES:
CONNECT IS E2 RC AT 10
CONNECT IS E2 RC AT 11
CONNECT IS X3 RC AT 24
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE

L15 1548 SEA FILE=REGISTRY SUB=L5 SSS FUL L13
L16 5 SEA FILE=HCAPLUS ABB=ON PLU=ON L12
L17 3618 SEA FILE=HCAPLUS ABB=ON PLU=ON L15

L18 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L16 AND L17

=> fil hcaplus FILE 'HCAPLUS' ENTERED AT 12:38:23 ON 23 FEB 2005 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

=> d l18 1-4 ibib abs hitstr hitind

L18 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:446936 HCAPLUS

DOCUMENT NUMBER: 141:8600

TITLE: Yellow pigment composition for image recording

and process for producing the same

INVENTOR(S): Takahara, Koichi; Sato, Junichiro; Misono,

Kensuke; Kitamura, Kunji; Tamatome, Hidehiro

Sanyo Color Works, Ltd., Japan

Eur. Pat. Appl., 22 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

LANGUAGE:

SOURCE:

Patent English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT ASSIGNEE(S):

I	PAT	ENT I	NO.			KIN	D	DATE		APPI	JICAT	ION	NO.		DAT	E
- - I	 EP	1424	 - 370			A1	_	2004	0602	EP 2	2003-	 2574	 76		200:	3
		R:	MC,		IE,										112 SE, CZ,	
Ċ	JP	2003	•			A2		2003	0910	JP 2	002-	3625	17	•	200	2
Ċ	JP	20042	2042	21		A2		2004	0722	JP 2	:003-	3661	82		1213 2003	
PRIOR	ΙΤΥ	APP	LN.	INFO	. :					JP 2	002-	3440	30	i	102° A	
															2002 112	
										JP 2	002-	3625	17	i	A 2002 1213	
,										JP 2	003-	3661	82	i	A 2003 102	

OTHER SOURCE(S): MARPAT 141:8600

AB Monoazo based yellow pigment compns. for image recording that are suitable as a well-balanced yellow coloring agent for image recording with favorable reproducibility of images and image retaining capacity, which is inexpensive and excellent in safety are provided. The composition includes a monoazo yellow base pigment represented by R1N:NC(COMe)HCONHR2 [R1 = (optionally 2,4-di-substituted) Ph group; R2 = (optionally tri-substituted) Ph group], and a particular disazo yellow pigment having a sulfonic acid group and/or a particular monoazo yellow pigment.

IT 2512-29-0P 6358-31-2P 596806-21-2P

 $\hbox{(coupling reaction in manufacture of yellow pigment composition} \\ \hbox{for image}$

recording)

RN 2512-29-0 HCAPLUS

CN Butanamide, 2-[(4-methyl-2-nitrophenyl)azo]-3-oxo-N-phenyl- (9CI) (CA INDEX NAME)

RN 6358-31-2 HCAPLUS

CN Butanamide, 2-[(2-methoxy-4-nitrophenyl)azo]-N-(2-methoxyphenyl)-3-oxo-(9CI) (CA INDEX NAME)

O2N OMe
$$C-Me$$
 MeO $N=N-CH-C-NH$

RN 596806-21-2 HCAPLUS

CN Benzenesulfonic acid, 4-[[6-[[4-[[4-[[1-[[(2-chlorophenyl)amino]carbonyl]-2-oxopropyl]azo]-3,5-dimethylphenyl]methyl]-2,6-dimethylphenyl]amino]-1,4-dihydro-4-oxo-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)

PAGE 1-B

IT 596806-19-8P 596806-20-1P

(manufacture of yellow pigment composition for color image recording)

RN 596806-19-8 HCAPLUS

CN Ethanesulfonic acid, 2-[[1,4-dihydro-6-[[4-[[4-[[1-[[(2-methoxyphenyl)amino]carbonyl]-2-oxopropyl]azo]-3,5-dimethylphenyl]methyl]-2,6-dimethylphenyl]amino]-4-oxo-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)

RN 596806-20-1 HCAPLUS

CN 1-Naphthalenesulfonic acid, 2-[[1,4-dihydro-4-oxo-6-[[4-[[4-[[2-oxo-1-[(phenylamino)carbonyl]propyl]azo]phenyl]sulfonyl]phenyl]ami

no]-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)

IC ICM C09B067-00

CC 41-3 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)

Section cross-reference(s): 42, 74

IT 2512-29-0P 6358-31-2P 596806-21-2P

697148-75-7P 697148-81-5P 697148-90-6P

(coupling reaction in manufacture of yellow pigment composition for image

recording)

IT 596806-19-8P 596806-20-1P

(manufacture of yellow pigment composition for color image recording)

L18 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2003:710928 HCAPLUS

DOCUMENT NUMBER:

139:246912

TITLE:

Yellow pigment compositions for image

recording and preparation method thereof

INVENTOR(S):

Takahara, Koichi; Misono, Kensuke; Tamatome,

Hidehiro; Sato, Junichiro; Kitamura, Kunji Sanyo Color Works, Ltd., Japan

PATENT ASSIGNEE(S):

Jpn. Kokai Tokkyo Koho, 16 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

SOURCE:

Japanese

FAMILY ACC. NUM. COUNT:

. 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003253188	A2	20030910	JP 2002-362517	2002
JP 2004204221	A2	20040722	JP 2003-366182	1213 2003

													-
IIQ	2004.138	3434		A1			N715	US	2003-	72140	12		1027
05	2004.130	7474		AI		2004	0713	05	2005	72140	, ,		2003 1125
EP	1424370)		A1		2004	0602	EP	2003-	25747	76		
													2003 1127
								GB, GR RO, MK		-	-	-	
		E, HU,		51,	шт,	ш ,	Г1,	KO, MK	, (1,	AD,	111,	DG,	C4,
PRIORITY	APPLN	. INFO	.:					JP	2002-	34403	30	A	
													2002 1127
								JP	2002-	36251	L7	А	
·											•		2002 1213
·.	•							JP	2003-	36618	32	A	
													2003 1027

OTHER SOURCE(S): MARPAT 139:246912

GI

STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT

- AΒ The pigment compns. for use in ink-jet printing, electrostatic printing, and electrophotog. image recording contain yellow pigments I, II, and III (R1, R2 = H, C1, NO2, Me, OMe; R3-R5 = H, Cl, NO2, Me, OMe, OEt; R6, R7 = Me, OMe; Q1-Q4 = H, C1-2 lower alkyl, lower alkoxy, OH; Q1-Q4 = H, lower alkyl, alkoxy, OH; W = CH2, O, S, SO2, O-p-C6H4O, CONH, O-m-C6H4O, O-p-C6H4C6H4-p-O, O-p-C6H4SO2C6H4-p-O; A, B = NHYSO3H, OH; Y = ethylene, phenylene, naphthylene; m = 0, 1). Thus, coupling of m-nitro-o-anisidine and IV with acetoacetyl o-anisidide gave a pigment composition having an average pigment diameter of 0.08 μm .
- ΙT 6486-23-3P 150206-17-0P 596806-19-8P 596806-20-1P 596806-21-2P

(preparation of yellow azo pigment compns. for image recording applications)

RN6486-23-3 HCAPLUS

CN Butanamide, 2-[(4-chloro-2-nitrophenyl)azo]-N-(2-chlorophenyl)-3oxo- (9CI) (CA INDEX NAME)

RN 150206-17-0 HCAPLUS

CN Butanamide, 2-[(2-methoxy-3-nitrophenyl)azo]-N-(2-methoxyphenyl)-3-oxo-(9CI) (CA INDEX NAME)

RN 596806-19-8 HCAPLUS

CN Ethanesulfonic acid, 2-[[1,4-dihydro-6-[[4-[[4-[[1-[[(2-methoxyphenyl)amino]carbonyl]-2-oxopropyl]azo]-3,5-dimethylphenyl]methyl]-2,6-dimethylphenyl]amino]-4-oxo-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)

RN 596806-20-1 HCAPLUS

CN 1-Naphthalenesulfonic acid, 2-[[1,4-dihydro-4-oxo-6-[[4-[[4-[[2-oxo-1-[(phenylamino)carbonyl]propyl]azo]phenyl]sulfonyl]phenyl]ami

no]-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)

RN 596806-21-2 HCAPLUS

CN Benzenesulfonic acid, 4-[[6-[[4-[[4-[[1-[[(2-chlorophenyl)amino]carbonyl]-2-oxopropyl]azo]-3,5-dimethylphenyl]methyl]-2,6-dimethylphenyl]amino]-1,4-dihydro-4-oxo-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)

PAGE 1-B

IC ICM C09D017-00 ICS B41M005-00; C09B029-33; C09B035-035; C09B067-22; C09D011-00; G03G009-09

CC 41-3 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)

Section cross-reference(s): 42, 74 6486-23-3P 150206-17-0P 596806-19-8P 596806-20-1P 596806-21-2P

(preparation of yellow azo pigment compns. for image recording applications)

L18 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:729868 HCAPLUS

DOCUMENT NUMBER: 123:259916

TITLE: Pigment dispersants

INVENTOR(S): Kitamura, Kunji; Miki, Toshuki; Saiki,

Shunjiro; Saiki, Mutsuhiko

PATENT ASSIGNEE(S): Sanyo Color Works, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	7 . O	10050516	TD 1002 210007	
JP 07126546	A2	19950516	JP 1993-310987	1993
JP 3561846	В2	20040902		1106
PRIORITY APPLN. INFO.:			JP 1993-310987	
				1993 1106

OTHER SOURCE(S):

MARPAT 123:259916

GI

IT

AB Title dispersants, useful for pigments in coatings and inks, comprise I [R = residue of azo coupler; R1, R2 = OH, NHYSO3H; Y = ethylene, (un)substituted phenylene, naphthylene; ≥1 of R1 and R2 being NHYSO3H; Q = H, halo, lower alkyl, lower alkoxy, OH; Z = CH2, O, S, SO2, CONH, O-p-C6H4-p-C6H4O, O-p-C6H4-SO2-p-C6H4, O-p-C6H4-C(CF3)2-p-C6H4O, O-p-C6H4O, O-m-C6H4O, CH:CH; m ≥0] and their metal salts, ammonium salts, and amine salts. A mixture of C.I. Pigment Yellow 83 9.0, II 1.0, urethane varnish

^{*} STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT

45.0, and thinner (toluene/iPrOH/MEK) 45.0 parts showed viscosity 113 cP at 60 rpm and gloss 87.2%.

IT 4531-49-1, C.I. Pigment Yellow 17 5468-75-7,

C.I. Pigment Yellow 14 5567-15-7, C.I. Pigment Yellow 83

6358-31-2, C.I. Pigment Yellow 74 6358-85-6,

C.I. Pigment Yellow 12 **6505-28-8**, C.I. Pigment Orange 16 (pigment dispersants for coatings and inks)

RN 4531-49-1 HCAPLUS

CN Butanamide, 2,2'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[N-(2-methoxyphenyl)-3-oxo-(9CI) (CA INDEX NAME)

RN 5468-75-7 HCAPLUS

CN Butanamide, 2,2'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[N-(2-methylphenyl)-3-oxo-(9CI) (CA INDEX NAME)

RN 5567-15-7 HCAPLUS

CN Butanamide, 2,2'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[N-(4-chloro-2,5-dimethoxyphenyl)-3-oxo-(9CI)(CA INDEX NAME)

Cl OMe O C-Me Cl O Me-C O MeO

NH-C-CH-N=N

N=N-CH-C-NH

PAGE 1-B

RN 6358-31-2 HCAPLUS

CN Butanamide, 2-[(2-methoxy-4-nitrophenyl)azo]-N-(2-methoxyphenyl)-3-oxo-(9CI) (CA INDEX NAME)

O2N OMe
$$C-Me$$
 MeO $N=N-CH-C-NH$ O

RN 6358-85-6 HCAPLUS

CN Butanamide, 2,2'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[3-oxo-N-phenyl- (9CI) (CA INDEX NAME)

RN 6505-28-8 HCAPLUS

CN Butanamide, 2,2'-[(3,3'-dimethoxy[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[3-oxo-N-phenyl- (9CI) (CA INDEX NAME)

IT 169379-44-6P 169379-45-7P 169379-46-8P 169379-47-9P 169379-48-0P 169379-49-1P 169379-50-4P 169379-51-5P 169379-54-8P

(pigment dispersants for coatings and inks)

RN 169379-44-6 HCAPLUS

CN Benzenesulfonic acid, 4,4'-[[6-[[3,3'-dichloro-4'-[[1-[[(4-chloro-2,5-dimethoxyphenyl)amino]carbonyl]-2-oxopropyl]azo][1,1'-biphenyl]-4-yl]amino]-1,3,5-triazine-2,4-diyl]diimino]bis-(9CI)
(CA INDEX NAME)

PAGE 1-A

PAGE 1-B

RN 169379-45-7 HCAPLUS

CN Benzenesulfonic acid, 4-[[6-[[3,3'-dichloro-4'-[[1-[[(4-chloro-2,5-dimethoxyphenyl)amino]carbonyl]-2-oxopropyl]azo][1,1'-biphenyl]-4-yl]amino]-1,4-dihydro-4-oxo-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

RN 169379-46-8 HCAPLUS

CN Benzenesulfonic acid, 4,4'-[[6-[[3,3'-dichloro-4'-[[1-[[(4-chloro-2,5-dimethoxyphenyl)amino]carbonyl]-2-oxopropyl]azo][1,1'-biphenyl]-4-yl]amino]-1,3,5-triazine-2,4-diyl]diimino]bis-, barium salt (1:1) (9CI) (CA INDEX NAME)

PAGE 1-A

Ba

PAGE 1-B

RN 169379-47-9 HCAPLUS

CN Benzenesulfonic acid, 4-[[6-[[3,3'-dichloro-4'-[[1-[[(4-chloro-2,5-dimethoxyphenyl)amino]carbonyl]-2-oxopropyl]azo][1,1'-biphenyl]-4-yl]amino]-1,4-dihydro-4-oxo-1,3,5-triazin-2-yl]amino]-, compd. with 1-octadecanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 169379-45-7

CMF C33 H27 C13 N8 O8 S

PAGE 1-A

PAGE 1-B

CM 2

CRN 124-30-1 CMF C18 H39 N

 H_2N^- (CH₂)₁₇-Me

RN 169379-48-0 HCAPLUS

CN Benzenesulfonic acid, 4-[[6-[[3,3'-dichloro-4'-[[2-oxo-1-[(phenylamino)carbonyl]propyl]azo][1,1'-biphenyl]-4-yl]amino]-1,4-

dihydro-4-oxo-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)

RN 169379-49-1 HCAPLUS

CN Benzenesulfonic acid, 4-[[6-[[3,3'-dichloro-4'-[[1-[[(2-methylphenyl)amino]carbonyl]-2-oxopropyl]azo][1,1'-biphenyl]-4-yl]amino]-1,4-dihydro-4-oxo-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

__ SO3H

RN 169379-50-4 HCAPLUS

CN Benzenesulfonic acid, 4-[[6-[[3,3'-dichloro-4'-[[1-[[(2-methoxyphenyl)amino]carbonyl]-2-oxopropyl]azo][1,1'-biphenyl]-4-yl]amino]-1,4-dihydro-4-oxo-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

__ SO3H

RN 169379-51-5 HCAPLUS

CN Benzenesulfonic acid, 4-[[6-[[3,3'-dichloro-4'-[[1-[[(2,3-dihydro-2-oxo-1H-benzimidazol-5-yl)amino]carbonyl]-2-oxopropyl]azo][1,1'-biphenyl]-4-yl]amino]-1,4-dihydro-4-oxo-1,3,5-triazin-2-yl]amino]-(9CI) (CA INDEX NAME)

RN 169379-54-8 HCAPLUS

CN Ethanesulfonic acid, 2-[[6-[[3,3'-dimethoxy-4'-[[2-oxo-1-[(phenylamino)carbonyl]propyl]azo][1,1'-biphenyl]-4-yl]amino]-1,4-dihydro-4-oxo-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)

```
HO3S-CH2-CH2-NH
                   OMe
                          OMe
Me-C-CH-N=N
ΙC
     ICM C09B067-20
CC
     42-6 (Coatings, Inks, and Related Products)
     Section cross-reference(s): 25, 41
IT
     2425-85-6, C.I. Pigment Red 3
                                     3520-72-7, C.I. Pigment Orange 13
     4531-49-1, C.I. Pigment Yellow 17 5280-68-2, C.I.
     Pigment Red 146 5468-75-7, C.I. Pigment Yellow 14
     5567-15-7, C.I. Pigment Yellow 83 6358-31-2,
     C.I. Pigment Yellow 74 6358-85-6, C.I. Pigment Yellow 12
     6358-87-8, C.I. Pigment Red 38 6410-41-9, C.I. Pigment Red 5
     6505-28-8, C.I. Pigment Orange 16
                                         6883-91-6, C.I.
     Pigment Red 37
                    12225-18-2, C.I. Pigment Yellow 97
                                                           15793-73-4,
                             31778-10-6, C.I. Pigment Red 208
     C.I. Pigment Orange 34
     31837-42-0, C.I. Pigment Yellow 151 36888-99-0, C.I. Pigment
     Yellow 139
        (pigment dispersants for coatings and inks)
IT
     169379-44-6P 169379-45-7P 169379-46-8P
     169379-47-9P 169379-48-0P 169379-49-1P
     169379-50-4P 169379-51-5P
                                 169379-52-6P
     169379-53-7P 169379-54-8P
                                 169379-56-0P
                                                169379-58-2P
     169379-59-3P
                    169379-60-6P
                                   169379-61-7P
                                                  169379-62-8P
     169379-63-9P
                    169379-64-0P
                                   169379-65-1P
                                                  169379-66-2P
     169379-67-3P
        (pigment dispersants for coatings and inks)
     ANSWER 4 OF 4
                    HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
                         1969:440227 HCAPLUS
DOCUMENT NUMBER:
                         71:40227
TITLE:
                         Direct phthalocyanine green dyes
                         Chmatal, Vladimir; Allan, Zdenek J.; Horyna,
INVENTOR(S):
                         Jaroslav; Panchartek, Josef; Virag, Oldrich
SOURCE:
                         Czech., 3 pp.
                         CODEN: CZXXA9
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         Czech
FAMILY ACC. NUM. COUNT:
```

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CS 121263		19661215	CS	
				1964
				0505

GI For diagram(s), see printed CA Issue.

AB Brilliant green dyes of the general formula I (Pc is a Cu phthalocyanine residue) were prepared and have a good light and wash fastness on cellulose. Thus, 32.2 parts of the equimol. condensate from 2,4-(H2N)2C6H3SO3H and cyanuric chloride was heated to 40° with 50.6 parts 3,1,5-H2NC10H5-(SO3H)2 → 4-H2NC6H4NHCOCH2 COMe, cooled to 20°, treated with aqueous suspension of 94.9 parts Cu sulfophthalocyaninetris-(sulfonyl chloride), condensed with 9.2 parts benzidine, and heated for 1 hr. to 90-100° to give I [R = H, X = direct bond, Y = 1,5,3-(HO3S)2C10H5(Q)], a dark green powder soluble in H2O and concentrated

H2SO4. Similarly were prepared green I (R, X, and Y given): H, NHCO, Q; SO3H, CH:CH, Q. Similarly prepared were the yellowish green I (R = H, X = direct bond) with Y being 4,3-MeO(HO3S)C6H3 or 4,3-Me(HO3S)C6H3.

- IT **26427-99-6P 26428-01-3P 26777-95-7P** (preparation of)
- RN 26427-99-6 HCAPLUS
- CN Copper, [µ-[[decahydrogen [4,4'-biphenylylenebis[imino[6-[p-[2-[(3-sulfo-p-tolyl)azo]acetoacetamido]anilino]-s-triazine-4,2-diyl]imino(6-sulfo-m-phenylene)iminosulfonyl]]diphthalocyaninetris ulfonato](4-)]]di- (8CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

PAGE 2-B

RN 26428-01-3 HCAPLUS

CN Copper, [μ-[[tetradecahydrogen [vinylenebis[(3-sulfo-pphenylene)imino[6-[p-[2-[(4,8-disulfo-2naphthyl)azo]acetoacetamido]anilino]-s-triazine-4,2-diyl]imino(6sulfo-m-phenylene)iminosulfonyl]]diphthalocyaninetrisulfonato](4)]]di- (8CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

PAGE 2-B

PAGE 2-C

RN

26777-95-7 HCAPLUS

CN Copper, [μ -[[decahydrogen [4,4'-biphenylylenebis[imino[6-[p-[2-[(4-methoxy-3-sulfophenyl)azo]acetoacetamido]anilino]-s-triazine-4,2-diyl]imino(6-sulfo-m-phenylene)iminosulfonyl]]diphthalocyanine trisulfonato](4-)]]di- (8CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

●10 H+

PAGE 2-B

PAGE 2-C

OMe